

Monitoring Data Record

Project Title: U-2550B NC 18 and I-40 Interchange COE Action ID: 2011-00133
Stream Name: UT to East Prong Hunting Creek (Site 3) and East Prong Hunting Creek (Site 4)
NCDWQ Number: 20101017
City, County and other Location Information: Site 3 is located between I-40W off ramp to NC 18 and Bush Drive. Site 4 is located under I-40 just West of NC 18. Both Sites 3 and 4 are located in Morganton, NC within Burke County.
Date Construction Completed: Final Planting 3-10-15 Monitoring Year: (1) of 3
Ecoregion: Northern Inner Piedmont 8 digit HUC unit 03050101
USGS Quad Name and Coordinates: NC-Morganton Site 3: 35.723373, -81.654717 and Site 4: 35.722083, -81.656957

Rosgen Classification: Site 3: C5 or B5c

Length of Project: Site 3: 481 linear feet and Site 4: 115 linear feet

Urban or Rural: Urban Watershed Size: 120.5 acres

Monitoring DATA collected by: M. Green and J. Young Date: 6/29/15

Applicant Information:

Name: NCDOT Roadside Environmental Unit

Address: 1425 Rock Quarry Road Raleigh, NC 27610

Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov

Consultant Information:

Name: _____

Address: _____

Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1

USACE Permit states: The permittee shall visually monitor the vegetative planting to assess and ensure complete stabilization of the mitigation stream segments which serve as on-site mitigation. The monitoring shall be conducted annually for a minimum of 3 years after final planting. Photo documentation shall be utilized to document the success of the riparian vegetation and a report shall be submitted to the USACE within sixty (60) days post monitoring. To prevent mowing by adjacent landowners and maintenance crews, fencing shall be installed around the mitigation site. After 3 years of monitoring, the permittee shall schedule a close out site visit of the on-site mitigation.

NCDWR Permit states: The permittee shall visually monitor the vegetative plantings to assess and ensure complete stabilization of the mitigation stream segments. The monitoring shall be conducted annually for a minimum of 3 years after final planting. Photo documentation shall be utilized to document the success of the riparian vegetation and submitted to NCDWR in a final report within sixty (60) days after completion monitoring. To prevent mowing by adjacent landowners and maintenance crews, fencing shall be installed around the mitigation site. After 3 years the NCDOT shall contact the NCDWR to schedule a site visit to “close out” the mitigation site.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: Site 3 has 4 photo point locations which consist of a total of 7 photos plus 2 overview photos. Site 4 has 1 photo point location which consist of 1 photo.

Dates reference photos have been taken at this site: 6/29/15

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: A site map is included with this report.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action: _____

ADDITIONAL COMMENTS: Plant survival is being monitored at UT to East Prong Hunting Creek (Site 3) but, East Prong Hunting Creek (Site 4) will not be monitored for plant survival due to its location underneath a bridge crossing I-40. Site 4 was permitted as a day lighted stream only with no planting required.

March 10, 2015: Site planting completed with silky dogwood, elderberry, buttonbush, tag alder, red chokeberry, and spicebush.

June 29, 2015: Year 1 monitoring noted silky dogwood, elderberry, buttonbush, tag alder, red chokeberry, and spicebush were surviving. The South buffer was lacking plant material survival due to lespedeza encroaching in the buffer from the fill slope. Other species noted onsite included red maple, jewelweed, Juncus sp., sweetgum, briars, lespedeza, goldenrod, black willow, and various grasses.

September 23, 2015: NCDOT sprayed an herbicide application on the lespedeza noted within the South buffer.

NCDOT plans to do a supplemental planting of the South buffer by March 2016. NCDOT will continue to monitor plant survival at the UT to East Prong Hunting Creek (Site 3) in 2016.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

UT to East Prong Hunting Creek (Site 3) and East Prong Hunting Creek (Site 4) are both stable for the Year 1 monitoring evaluation. NCDOT proposes to continue monitoring channel stability in 2016.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					
Other problems noted?					
Bankfull event dates and how it was noted					

Section 4. DEBIT LEDGER

The entire East Prong Hunting Creek stream mitigation site was used for the U-2550B project to compensate for unavoidable stream impacts.

UT to East Prong Hunting Creek (Site 3)



PP#1 Upstream



PP#1 Downstream



PP#2 Upstream



PP#2 Downstream



PP#3 Upstream



PP#3 Downstream

June 2015

UT to East Prong Hunting Creek (Site 3)



PP#4 Upstream



Overview Looking Upstream



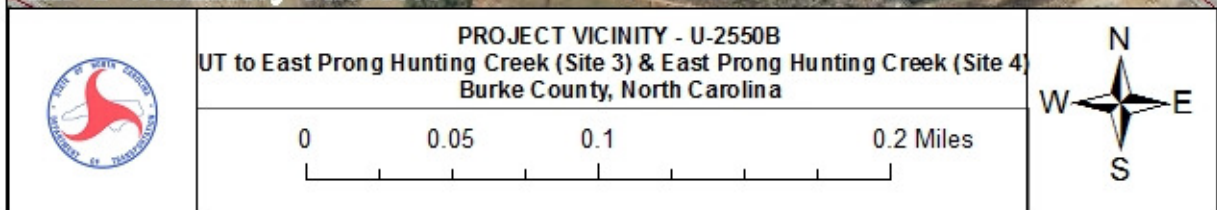
Overview Looking Downstream

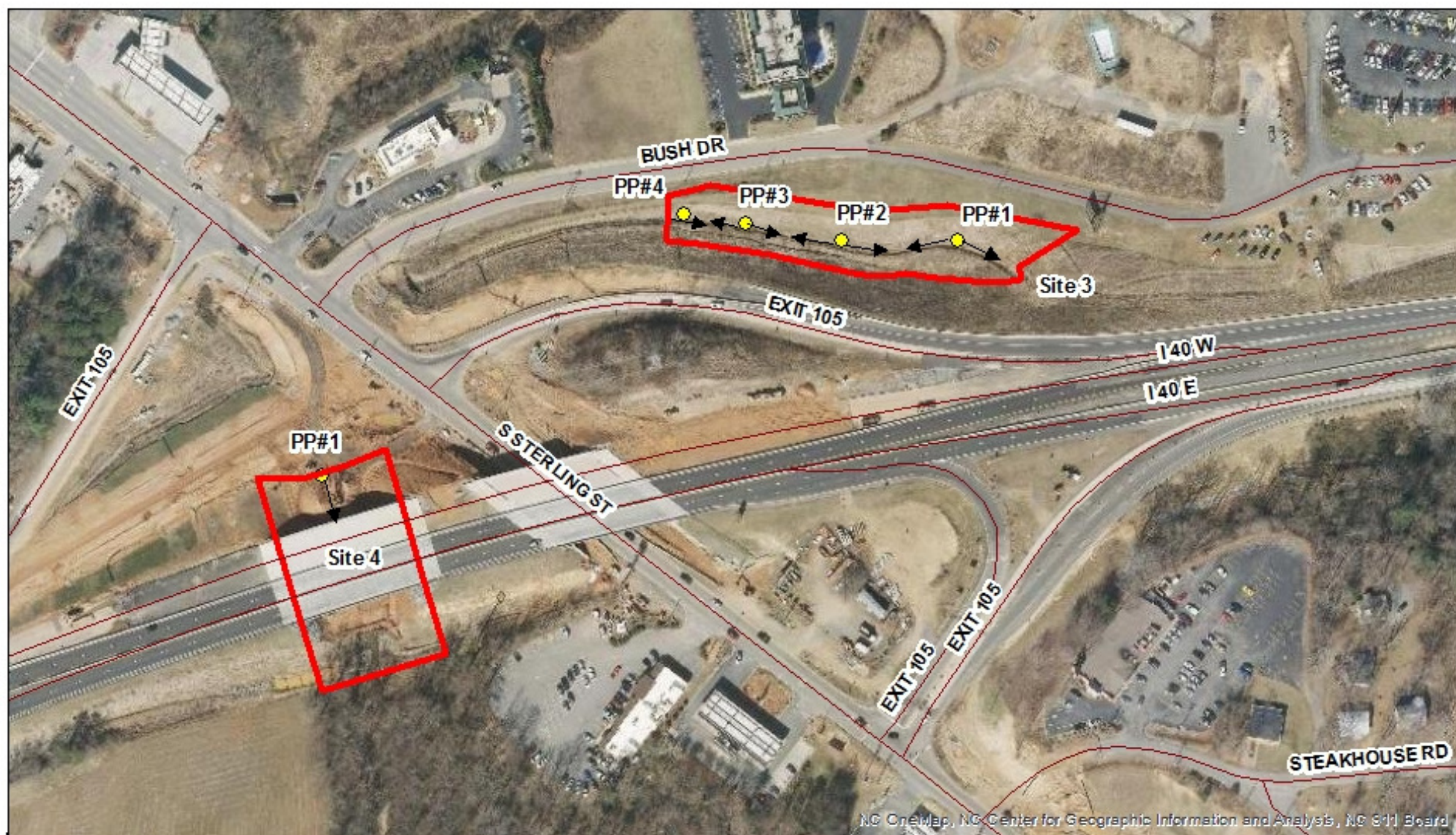
June 2015

East Prong Hunting Creek (Site 4)

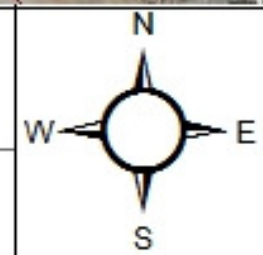
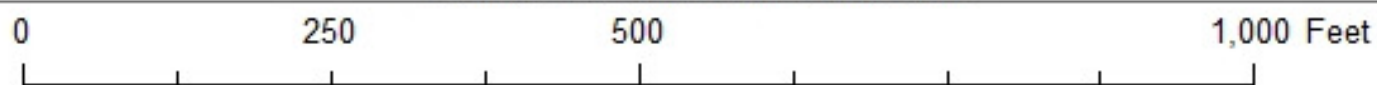


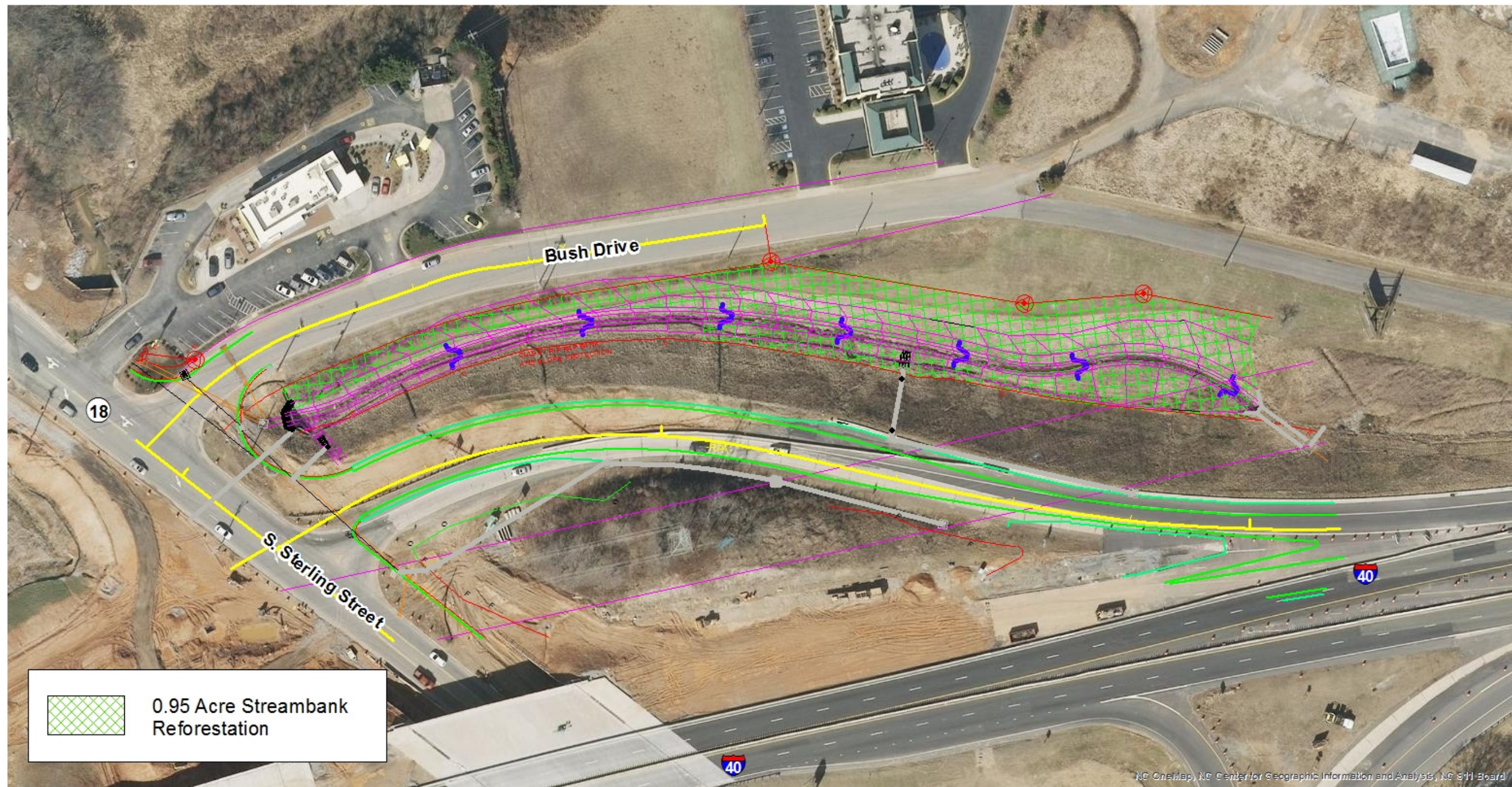
Photo Point #1 @ Site 4





SITE MAP
U-2550B UT to EAST PRONG HUNTING CREEK (SITE 3) &
EAST PRONG HUNTING CREEK (SITE 4)
BURKE COUNTY, NORTH CAROLINA





STREAMBANK REFORESTATION AREA
U-2550B East Prong Hunting Creek
Burke County, North Carolina

